

MSDS (Material Safety Data Sheet)

EMERGENCY TELEPHONE NO.: 800-424-9300

PRODUCT NAME: **F-2000, FABRIC SHIELD FLAME RETARDANT**

CHEMICAL FAMILY: Aqueous-based fire retardant.

SECTION I - PRODUCT INFORMATION

MANUFACTURER'S NAME:

UNIVERSAL FIRE SHIELD

3544 Waterfield Pkwy - Lakeland, Florida 33803 USA

TELEPHONE # FOR INFORMATION: 800-608-5699

TRADE SECRET FORMULA

SECTION II - HAZARDOUS COMPONENTS

COMPONENT		ACGIH	OSHA
<u>CAS REGISTRY NO.</u>	<u>WT. %</u>	<u>TLV</u>	<u>PRL</u>
Neobor	2%	3,500 -	4,100 mg/kg
Sodium Bromide	2.5% - 5%	3,500 -	
Boric Acid	1% - 3%	3,500 -	4,100 mg/kg
10043-35-3			

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Odorless, colorless liquid.

MOLECULAR WEIGHT: Not Applicable.

BOILING POINT: (DEGREES FAHRENHEIT): 212 - N/A

MELTING POINT: (DEGREES FAHRENHEIT): Not Applicable.

VAPOR PRESSURE: (mm of Mercury): Not Determined.

SPECIFIC GRAVITY (WATER=1): 1.19 - 1.12

VAPOR DENSITY (AIR=1): Aqueous mixture not determined.

PERCENT VOLATILE: (BY WEIGHT): 64% - 85% max. (water content only)

pH: 5.5 - 6.7

SOLUBILITY IN WATER: Complete.

EVAPORATION RATE: (BUTYL ACETATE=1): Not Determined < 1 (slower).

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (DEGREES FAHRENHEIT: PENSKEY-MARTENS CLOSED CUP): None to boiling.

FIRE EXTINGUISHING MEDIA: Not combustible. Use water spray, fog, foam, dry chemicals, CO₂, or

other agents as appropriate for material in surrounding fire.

FLAMMABLE LIMITS (PERCENT BY VOLUME): Not applicable.

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT: Not combustible.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Exposure to high heat and/or combustion may cause liberation of traces of ammonia.

SECTION V - REACTIVITY DATA

STABILITY: STABLE X UNSTABLE

CONDITIONS TO AVOID: Mixing & strong bases; Mixing with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong bases may release ammonia gas.

HAZARDOUS DECOMPOSITION PRODUCTS: In the dried state, nitrogen oxides, ammonia or hydrogen bromide may be formed in the presence of fire.

HAZARDOUS POLYMERIZATION: Will Occur Will Not Occur X

SECTION VI - HEALTH HAZARD INFORMATION

EXPOSURE FROM ROUTINE USE: No evidence of adverse effects from available information.

EFFECTS OF OVEREXPOSURE: Direct contact with eyes may cause irritation.

PROBABLE ROUTES OF EXPOSURE: Eyes, inhalation, and ingestion.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 min. including underneath eyelids.

Consult a physician if irritation persists.

SKIN CONTACT: Non-irritant; wash from skin.

INHALATION: Not established. Not expected to be harmful.

CARCINOGENICITY: Not applicable.

OTHER PERTINENT DATA: Not applicable.

SECTION VII - TOXICITY DATA

ORAL: Acute Oral Toxicity: Ld50 (rat) > 5000 mg/kg

DERMAL: Not established, not expected to be harmful. May be irritating with continual contact.

INHALATION: Not established. Not expected to be harmful. If necessary, use respirator if adequate ventilation is not possible to keep exposure to particulate matter at a minimum.

OTHER PERTINENT DATA: Not applicable.

SECTION VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTION EQUIPMENT

PROTECTIVE GLOVES: Ordinary protective work gloves.

EYE PROTECTION: Safety goggles.

RESPIRATORY PROTECTION (SPECIFY TYPE): Use NIOSH approved equipment suitable for nuisance vapors when airborne exposure is necessary.

OTHER PROTECTIVE EQUIPMENT: Wear easily washable clothing.

SECTION IX - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine spilled material and absorb on sand, sawdust, earth or other available solids. Sweep and place in a suitable container. Flush with water and rinse minor spills into sewer if permitted by Federal, State and local regulations.

WASTE DISPOSAL METHODS: Incinerate or bury in a suitable land fill where permitted by appropriate government regulations.

CLEAN WATER ACT REQUIREMENTS: Not applicable.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: No applicable information found.

SECTION X - REGULATORY INFORMATION

FDA: No applicable information found.

USDA: No applicable information found.

CPSC: No applicable information found.

TSCA: No applicable information found.

DOT: No applicable information found.

EPA: No applicable information found.

PROPER SHIPPING NAME: Not applicable.

HAZARDOUS CLASS: Not applicable.

LABEL REQUIRED: Not applicable.

IDENTIFICATION NUMBER: Not applicable.

OTHER PERTINENT INFORMATION: Not applicable.

SECTION XI - SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from eyes. Avoid prolonged contact with skin. Wash exposed skin with soap and water. Avoid breathing of mist.

OTHER PRECAUTIONS: Not applicable.

REGISTRATION/CERTIFICATIONS: Not applicable.

EFFECTIVE DATE: February 19, 2010

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Unishield International, LLC and Universal Fire Shield's knowledge, or obtained from sources believed to be accurate, and Universal Fire Shield or Unishield International, LLC does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.